

Date: Thu, 6 Oct 94 04:30:31 PDT
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: List
Subject: Ham-Space Digest V94 #281
To: Ham-Space

Ham-Space Digest Thu, 6 Oct 94 Volume 94 : Issue 281

Today's Topics:

EZSATS - Eastern Passes 10/03-11/01
EZSATS Western Pass Times 10/03-11/01
Satellite Tracking for Windoze

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We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 5 Oct 1994 09:06:53 GMT
From: dt650@cleveland.Freenet.Edu (David J. Mullenix)
Subject: EZSATS - Eastern Passes 10/03-11/01

Please don't post these to packet - they contain four weeks worth of pass
times for the Eastern half of the country and are too long for packet.

Easy Sats East - Eastern US Satellite UTC Pass Times de N9LTD

Sat Name	Downlink Signals and Frequencies	Date of Elements
MIR	FM Voice and Packet	145.550 MHz 30Sep
OSCAR-21	*FM Voice Repeater, Packet Telemetry, WEFAX Pics	145.987 MHz 27Sep
RS-10/11	*CW/SSB 29.360-29.400 MHz Beacons:29.357 + 29.403 MHz	25Sep
RS-12/13	*CW/SSB 29.410-29.450 MHz Beacons:29.407 + 29.453 MHz	28Sep
DOVE	*Standard 1200 baud Packet telemetry & messages	145.825 MHz 24Sep
A0-27	*OCCASIONAL FM RPTR! Input: 145.850 Output: 436.800 MHZ	24Sep

Mon 03 Oct 94

MIR 05:46i 07:19e 08:56g 10:34i 12:11i 13:47f 15:24g

OSCAR-21	08:25f	10:10F	12:03I	19:24g	21:09E	22:58I	
RS-10/11	06:58i	08:42c	10:29H	20:28g	22:13D		
RS-12/13	00:17c	02:04H	09:32i	11:16e	13:02G	23:01h	
DOVE	03:07h	04:45C	06:28I	15:22i	16:59d	18:39H	
AO-27	02:28h	04:06D	05:50I	14:44i	16:22c	18:02H	
Tue 04 Oct 94							
MIR	06:24h	08:00f	09:38i	11:16i	12:52h	14:28e	16:06i
OSCAR-21	07:11i	08:52d	10:39H	18:08i	19:51e	21:37G	
RS-10/11	00:04I	07:27h	09:12C	11:00I	19:18i	20:57e	22:44G
RS-12/13	00:45C	02:34I	09:59h	11:44A	13:31H	23:28f	
DOVE	02:39i	04:16c	05:57H	16:30g	18:10F	19:52I	
AO-27	02:03i	03:39b	05:21H	15:55f	17:35G	19:18I	
Wed 05 Oct 94							
MIR	05:30i	07:05c	08:42h	10:20i	11:57h	13:33c	15:10i
OSCAR-21	07:37h	09:20C	11:09I	18:34h	20:19A	22:06H	
RS-10/11	06:14i	07:57f	09:43F	19:45h	21:27B	23:15H	
RS-12/13	01:13F	03:06I	10:27g	12:12E	14:01I	22:15i	23:56c
DOVE	02:13i	03:47f	05:27G	16:02h	17:40D	19:22I	
AO-27	01:38i	03:13e	04:53G	15:29h	17:08E	18:50I	
Thr 06 Oct 94							
MIR	04:37i	06:10e	07:47g	09:25i	11:02i	12:38f	14:15g
OSCAR-21	08:03f	09:48F	11:40I	19:01g	20:46E	22:35I	
RS-10/11	06:42i	08:27c	10:13H	20:13g	21:57E	23:49I	
RS-12/13	01:43H	09:11i	10:55e	12:41G	22:41h		
DOVE	03:19g	04:57E	06:42I	15:34i	17:11c	18:52H	
AO-27	01:15I	02:47g	04:26F	06:13I	15:03i	16:41b	18:22H
Fri 07 Oct 94							
MIR	05:15g	06:51f	08:29i	10:07i	11:43h	13:19e	14:57i
OSCAR-21	06:49i	08:30d	10:17H	17:45i	19:29e	21:15G	
RS-10/11	07:12h	08:57D	10:45I	19:02i	20:42e	22:28G	
RS-12/13	00:24C	02:13I	09:38h	11:23B	13:10H	23:07f	
DOVE	02:51h	04:28A	06:10I	15:08I	16:42f	18:22G	
AO-27	02:21h	03:59C	05:42I	14:38i	16:15d	17:55H	
Sat 08 Oct 94							
MIR	04:21i	05:56c	07:33h	09:11i	10:48h	12:24c	14:01i
OSCAR-21	07:14h	08:57B	10:47I	18:12h	19:56b	21:43H	
RS-10/11	05:58i	07:41f	09:27G	19:29h	21:12A	23:00H	
RS-12/13	00:53F	02:45I	10:06g	11:51E	13:40I	21:54i	23:35d
DOVE	02:24i	03:59e	05:39H	16:14h	17:53E	19:34I	
AO-27	01:56i	03:32c	05:14H	15:48g	17:28F	19:10I	
Sun 09 Oct 94							
MIR	03:28i	05:01e	06:37h	08:16i	09:53i	11:29f	13:05g
OSCAR-21	07:41g	09:26F	11:18I	18:39g	20:24E	22:13I	
RS-10/11	06:27i	08:11b	09:58H	19:57g	21:42E	23:34I	
RS-12/13	01:22H	08:51i	10:34e	12:20G	22:20h		
DOVE	01:58I	03:30g	05:09F	15:45i	17:24A	19:04I	
AO-27	01:31i	03:06f	04:46G	15:22h	17:01D	18:42I	
Mon 10 Oct 94							

MIR	04:06g	05:42f	07:20i	08:57i	10:34h	12:10e	13:48i
OSCAR-21	06:27i	08:08d	09:54H	17:23i	19:06e	20:52G	
RS-10/11	06:56g	08:42D	10:30I	18:46i	20:26d	22:13G	
RS-12/13	00:03C	01:52I	09:18h	11:02B	12:49H	22:47f	
DOVE	03:02h	04:40C	06:23I	15:18i	16:55e	18:35H	
AO-27	02:40g	04:18E	06:04I	14:56i	16:34b	18:15H	
Tue 11 Oct 94							
MIR	03:12i	04:46d	06:24h	08:02i	09:39h	11:15b	12:52i
OSCAR-21	06:52h	08:35B	10:24I	17:49h	19:34a	21:21H	
RS-10/11	05:43i	07:26e	09:12G	19:13h	20:56B	22:45I	
RS-12/13	00:32F	02:24I	09:45g	11:31E	13:19I	21:33i	23:14c
DOVE	02:35i	04:11c	05:52H	16:26g	18:05F	19:47I	
AO-27	02:14h	03:51B	05:34I	14:31i	16:07e	17:47G	
Wed 12 Oct 94							
MIR	02:18i	03:51e	05:28h	07:06i	08:44i	10:20f	11:56g
OSCAR-21	07:18g	09:03F	10:55I	18:17g	20:02E	21:50I	
RS-10/11	06:11h	07:56b	09:43H	19:42g	21:27F	23:19I	
RS-12/13	01:01H	08:30i	10:13e	11:59G	21:59h	23:42C	
DOVE	02:09i	03:42f	05:22G	15:57h	17:36C	19:17I	
AO-27	01:49i	03:25d	05:06H	15:41g	17:20F	19:02I	
Thr 13 Oct 94							
MIR	02:57g	04:33f	06:10i	07:48i	09:25g	11:01e	12:39i
OSCAR-21	06:05i	07:45d	09:32H	17:01i	18:44e	20:30G	
RS-10/11	06:41g	08:26E	10:15I	18:30i	20:11d	21:58H	
RS-12/13	01:32I	08:57h	10:41A	12:28H	22:26f		
DOVE	03:14h	04:52E	06:37I	15:29i	17:07c	18:47H	
AO-27	01:25i	02:59f	04:38G	15:15h	16:53C	18:35I	
Fri 14 Oct 94							
MIR	02:02i	03:37c	05:15h	06:53i	08:29h	10:06d	11:43i
OSCAR-21	06:30h	08:13B	10:02I	17:27h	19:12a	20:58H	
RS-10/11	05:27i	07:11e	08:57G	18:57h	20:41C	22:30I	
RS-12/13	00:11F	02:04I	09:25g	11:10E	12:59I	21:13i	22:53c
DOVE	02:46i	04:23b	06:05I	16:38f	18:17G	20:01I	
AO-27	02:33h	04:11D	05:56I	14:49i	16:27c	18:07H	
Sat 15 Oct 94							
MIR	01:09i	02:42d	04:19h	05:57i	07:34i	09:10f	10:47h
OSCAR-21	06:56g	08:41F	10:33I	17:54g	19:39E	21:28I	
RS-10/11	05:56h	07:41A	09:28H	19:26f	21:11F	23:05I	
RS-12/13	00:41H	08:09i	09:52e	11:39G	21:38h	23:22C	
DOVE	02:20i	03:54e	05:35G	16:09h	17:48E	19:30I	
AO-27	02:07h	03:44b	05:26I	14:25I	16:00f	17:40G	19:24I
Sun 16 Oct 94							
MIR	01:47g	03:23f	05:01i	06:39i	08:15g	09:51e	11:30i
OSCAR-21	05:43i	07:23d	09:10G	16:39i	18:22e	20:07G	
RS-10/11	06:25g	08:11E	10:00I	18:14i	19:55c	21:43H	
RS-12/13	01:11I	08:36h	10:21A	12:08H	22:05f	23:50F	
DOVE	03:26g	05:05F	06:51I	15:41i	17:19a	18:59H	
AO-27	01:42i	03:18e	04:58H	15:34g	17:13E	18:55I	

Mon 17 Oct 94									
MIR	00:53h	02:28d	04:05h	05:43i	07:20h	08:56b	10:33i	23:59i	
OSCAR-21	06:08h	07:50B	09:39I	17:05i	18:49b	20:36H			
RS-10/11	05:11i	06:55d	08:41G	18:42h	20:25C	22:15I			
RS-12/13	01:43I	09:04g	10:49E	12:38I	20:52i	22:33c			
DOVE	02:58h	04:35C	06:18I	15:14i	16:50e	18:30G			
AO-27	01:19i	02:52g	04:31F	15:08h	16:46B	18:27I			
Tue 18 Oct 94									
MIR	01:33e	03:09h	04:47i	06:25i	08:01f	09:37h			
OSCAR-21	06:34g	08:18E	10:10I	17:32g	19:17D	21:05I			
RS-10/11	05:40h	07:25B	09:12I	17:33i	19:10f	20:56F	22:50I		
RS-12/13	00:20H	07:48i	09:32e	11:18G	21:18h	23:01C			
DOVE	02:31i	04:06d	05:47H	16:21g	18:00F	19:42I			
AO-27	02:26h	04:04C	05:47I	14:42i	16:19d	18:00H			
Wed 19 Oct 94									
MIR	00:38g	02:14g	03:52i	05:29i	07:06g	08:42e	10:20i	23:43h	
OSCAR-21	05:21i	07:01d	08:47G	16:16i	17:59f	19:45G			
RS-10/11	04:29I	06:10g	07:55F	09:45I	17:58i	19:40b	21:28H		
RS-12/13	00:50I	08:15h	10:00A	11:47H	21:44f	23:30F			
DOVE	02:05i	03:38f	05:17G	15:53h	17:31C	19:12I			
AO-27	02:00i	03:37b	05:19H	15:53f	17:33G	19:16I			
Thr 20 Oct 94									
MIR	01:18c	02:56h	04:34i	06:10h	07:47d	09:24i	22:49i		
OSCAR-21	05:45h	07:28B	09:17H	16:42i	18:27b	20:13H			
RS-10/11	04:56i	06:40d	08:26H	18:26h	20:10D	22:00I			
RS-12/13	01:22I	08:43g	10:28E	12:17I	20:31i	22:12d	23:59H		
DOVE	03:10h	04:48D	06:31I	15:25i	17:02d	18:42H			
AO-27	01:36i	03:11e	04:51G	15:27h	17:06D	18:47I			
Fri 21 Oct 94									
MIR	00:23d	02:00h	03:38i	05:15h	06:51f	08:28h	23:28g		
OSCAR-21	06:11g	07:56E	09:48I	17:09h	18:55D	20:43I			
RS-10/11	05:25h	07:10B	08:57I	17:17i	18:55f	20:41G	22:37I		
RS-12/13	07:28i	09:11e	10:57G	20:57h	22:40C				
DOVE	02:42i	04:19b	06:00H	16:33g	18:13G	19:56I			
AO-27	02:44g	04:23F	06:10I	15:01i	16:39a	18:20H			
Sat 22 Oct 94									
MIR	01:04f	02:42i	04:20i	05:56g	07:32e	09:11i	22:34h		
OSCAR-21	04:59i	06:38e	08:25G	15:54i	17:37f	19:23G			
RS-10/11	04:12i	05:54f	07:40F	09:31I	17:43i	19:24b	21:13H		
RS-12/13	00:29I	07:54h	09:39B	11:26H	21:24f	23:09F			
DOVE	02:15i	03:50f	05:30G	16:05h	17:43D	19:25I			
AO-27	02:19h	03:56C	05:40I	14:36i	16:12e	17:52H			
Sun 23 Oct 94									
MIR	00:09d	01:46h	03:24i	05:01h	06:37b	08:14i	21:40i	23:13d	
OSCAR-21	05:23h	07:06A	08:54H	16:20i	18:04b	19:51H			
RS-10/11	04:40i	06:24c	08:11H	18:10g	19:55D	21:45I			
RS-12/13	01:01I	08:22g	10:07E	11:56I	20:10i	21:51d	23:38H		
DOVE	03:22g	05:00E	06:45I	15:37i	17:14b	18:55H			

AO-27	01:54i	03:30c	05:11H	15:46g	17:25F	19:08I	
		Mon 24	Oct 94				
MIR	00:50h	02:28i	04:05i	05:42f	07:18h	22:18g	23:54g
OSCAR-21	05:49g	07:34E	09:25I	16:47h	18:32D	20:20I	
RS-10/11	05:09h	06:54C	08:42I	17:00i	18:39e	20:26G	
RS-12/13	07:07i	08:50e	10:36G	20:36h	22:19C		
DOVE	02:54h	04:31A	06:13I	15:10i	16:45f	18:25G	
AO-27	01:29i	03:03f	04:43G	15:19h	16:58D	18:40I	
		Tue 25	Oct 94				
MIR	01:32i	03:10i	04:46g	06:23f	08:01i	21:24h	22:59d
OSCAR-21	04:36i	06:16e	08:02G	15:32i	17:14f	19:00G	
RS-10/11	03:56i	05:39f	07:25F	17:27h	19:09b	20:57H	
RS-12/13	00:09I	07:34h	09:18b	11:05H	21:03f	22:48F	
DOVE	02:27i	04:02d	05:42H	16:17g	17:56E	19:37I	
AO-27	02:37g	04:16E	06:01I	14:54i	16:32b	18:12H	
		Wed 26	Oct 94				
MIR	00:36h	02:14i	03:51h	05:27a	07:04i	20:30i	22:03d 23:40h
OSCAR-21	05:01h	06:43A	08:32H	15:58i	17:42b	19:28H	
RS-10/11	04:24i	06:09c	07:55H	17:55g	19:39E	21:31I	
RS-12/13	00:41I	08:01g	09:47E	11:35I	19:50i	21:30d	23:17H
DOVE	02:01i	03:33g	05:13F	15:48i	17:27B	19:07I	
AO-27	02:12h	03:49B	05:32I	14:29i	16:05e	17:45G	
		Thr 27	Oct 94				
MIR	01:18i	02:56h	04:32f	06:08h	21:08g	22:45g	
OSCAR-21	05:27g	07:11E	09:02I	16:25h	18:10D	19:58I	
RS-10/11	04:54h	06:39D	08:27I	16:44i	18:24e	20:10G	
RS-12/13	06:46i	08:29e	10:15G	20:15h	21:58B	23:48I	
DOVE	03:05h	04:43C	06:26I	15:21i	16:58d	18:38H	
AO-27	01:47i	03:23d	05:03H	15:39g	17:18F	19:00I	
		Fri 28	Oct 94				
MIR	00:22i	02:00i	03:37g	05:13f	06:51i	20:14h	21:49d 23:26h
OSCAR-21	04:14i	05:54e	07:40G	15:10i	16:52f	18:38G	
RS-10/11	03:40i	05:23f	07:09G	17:11h	18:54A	20:42H	
RS-12/13	07:13h	08:57A	10:44H	20:42f	22:27F		
DOVE	02:38i	04:14c	05:55H	16:29g	18:08F	19:51I	
AO-27	01:23i	02:56f	04:36G	15:12h	16:51C	18:32I	
		Sat 29	Oct 94				
MIR	01:04i	02:41h	04:17b	05:54i	19:20i	20:54d	22:30h
OSCAR-21	04:39h	06:21A	08:09H	15:35i	17:20c	19:06H	
RS-10/11	04:09i	05:53b	07:40H	17:39g	19:24E	21:16I	
RS-12/13	00:20I	07:40g	09:26E	11:14I	19:29i	21:10d	22:57H
DOVE	02:11i	03:45f	05:25G	16:00h	17:39C	19:20I	
AO-27	02:30h	04:09D	05:53I	14:47i	16:24c	18:05H	
		Sun 30	Oct 94				
MIR	00:09i	01:46h	03:22f	04:58h	19:59g	21:35g	23:13i
OSCAR-21	05:05g	06:49E	08:40I	16:02h	17:47C	19:35I	
RS-10/11	04:38g	06:24D	08:12I	16:28i	18:08d	19:55G	
RS-12/13	06:25i	08:08e	09:54G	19:55h	21:38B	23:27I	

DOVE	03:17h	04:55E	06:40I	15:32i	17:10c	18:50H		
AO-27	02:05i	03:42a	05:24I	15:58f	17:38G	19:21I		
		Mon 31 Oct 94						
MIR	00:50i	02:27g	04:03f	05:41i	19:04h	20:39d	22:17h	23:55i
OSCAR-21	03:52i	05:31e	07:17G	14:47i	16:30f	18:15F		
RS-10/11	03:25i	05:08e	06:54G	16:55h	18:38B	20:27I		
RS-12/13	06:52h	08:37A	10:24H	20:21g	22:06F	23:59I		
DOVE	02:49h	04:26b	06:08I	15:07I	16:41f	18:20G	20:05I	
AO-27	01:40i	03:15e	04:56H	15:31h	17:11E	18:52I		
		Tue 01 Nov 94						
MIR	01:31h	03:07b	04:44i	18:10i	19:44d	21:20h	22:59i	
OSCAR-21	04:17i	05:59a	07:47H	15:13i	16:57c	18:44H		
RS-10/11	03:53h	05:38b	07:25H	17:24g	19:09F	21:01I		
RS-12/13	07:20g	09:05E	10:54I	19:08i	20:49d	22:36H		
DOVE	02:22i	03:57e	05:38H	16:12h	17:51E	19:33I		
AO-27	01:17I	02:49g	04:28F	15:05i	16:44A	18:25I		

Date: 5 Oct 1994 09:30:51 GMT
 From: dt650@cleveland.Freenet.Edu (David J. Mullenix)
 Subject: EZSATS Western Pass Times 10/03-11/01

Please don't post this file to packet. It contains four weeks worth of pass times for the Western half of the US and it's too long for packet.

Easy Sats West - Western US Satellite UTC Pass Times de N9LTD

Sat Name	Downlink Signals and Frequencies	Date of Elements
MIR	FM Voice and Packet	145.550 MHz 30Sep
OSCAR-21	*FM Voice Repeater, Packet Telemetry, WEFAX Pics	145.987 MHz 27Sep
RS-10/11	*CW/SSB 29.360-29.400 MHz	Beacons:29.357 + 29.403 MHz 25Sep
RS-12/13	*CW/SSB 29.410-29.450 MHz	Beacons:29.407 + 29.453 MHz 28Sep
DOVE	*Standard 1200 baud Packet telemetry & messages	145.825 MHz 24Sep
AO-27	*OCCASIONAL FM RPTR! Input: 145.850 Output: 436.800 MHZ	24Sep

	Mon 03 Oct 94							
MIR	07:19i	08:52d	10:29h	12:07i	13:44h	15:20d	16:57h	
OSCAR-21	00:14I	08:30i	10:10d	11:57G	19:24i	21:08e	22:54G	
RS-10/11	01:18I	08:42h	10:27B	12:14I	20:35i	22:13f	23:59F	
RS-12/13	00:19h	02:02B	03:51H	11:16h	13:00b	14:47H		
DOVE	03:14i	04:47g	06:26F	08:13I	17:01i	18:39b	20:20H	
AO-27	02:35i	04:08g	05:48F	16:23h	18:02B	19:43H		
	Tue 04 Oct 94							
MIR	07:57g	09:34f	11:11h	12:49h	14:25f	16:01g		
OSCAR-21	08:55h	10:37A	12:26H	19:51h	21:35a	23:22H		
RS-10/11	01:52I	07:29i	09:12f	10:57F	12:47I	21:01i	22:43b	

RS-12/13	00:46g	02:31E	04:22I	11:43g	13:29E	15:17I	23:33i
DOVE	04:19h	05:56C	07:39I	16:33i	18:10e	19:50G	
AO-27	03:42h	05:20D	07:04I	15:58i	17:35d	19:15H	
Wed 05 Oct 94							
MIR	07:03h	08:38c	10:16h	11:53i	13:30h	15:06d	16:44i
OSCAR-21	09:21g	11:06E	12:57I	20:18g	22:03D	23:51I	
RS-10/11	00:30H	07:57i	09:41c	11:28H	21:29g	23:13D	
RS-12/13	01:13d	03:00G	10:28i	12:11e	13:57G	23:58h	
DOVE	03:51i	05:27c	07:09H	17:41g	19:21F	21:02I	
AO-27	03:17i	04:54b	06:35H	17:09g	18:48F	20:31I	
Thr 06 Oct 94							
MIR	06:09i	07:43d	09:20h	10:58i	12:35h	14:11c	15:48h
OSCAR-21	08:08i	09:48d	11:34G	19:02i	20:45e	22:31G	
RS-10/11	01:03I	08:26h	10:12C	11:59I	20:18i	21:58e	23:44G
RS-12/13	01:41B	03:30H	10:55h	12:39a	14:26H		
DOVE	03:24i	04:59f	06:38G	17:13h	18:51C	20:32I	
AO-27	02:52i	04:27e	06:08G	16:42h	18:21D	20:03I	
Fri 07 Oct 94							
MIR	06:48g	08:24f	10:02h	11:40h	13:16f	14:52g	
OSCAR-21	08:32h	10:15B	12:04H	19:29h	21:13b	23:00H	
RS-10/11	01:38I	07:13i	08:56f	10:42F	12:32I	20:45h	22:27b
RS-12/13	00:25g	02:10E	04:01I	11:22g	13:08D	14:56I	23:12i
DOVE	04:30h	06:09D	07:53I	16:45i	18:22d	20:02H	
AO-27	02:28i	04:01g	05:40F	07:26I	16:16i	17:55a	19:35H
Sat 08 Oct 94							
MIR	05:54h	07:29c	09:06h	10:44i	12:21h	13:57d	15:35i
OSCAR-21	08:59g	10:43E	12:34I	19:56g	21:41D	23:29I	
RS-10/11	00:15H	07:42i	09:26c	11:13H	21:13g	22:57E	
RS-12/13	00:52d	02:39G	10:07i	11:50e	13:36G	23:37h	
DOVE	04:03h	05:40b	07:21H	17:53f	19:33G	21:15I	
AO-27	03:35h	05:13C	06:56I	15:51i	17:28e	19:08G	
Sun 09 Oct 94							
MIR	05:00i	06:34d	08:11h	09:49i	11:26h	13:02c	14:39h
OSCAR-21	07:45i	09:25e	11:12G	18:40i	20:23f	22:09G	
RS-10/11	00:48I	08:11h	09:56D	11:44I	20:02i	21:42e	23:28G
RS-12/13	01:20B	03:09H	10:34h	12:19a	14:05H		
DOVE	03:36i	05:11e	06:51G	17:25h	19:04D	20:45I	
AO-27	03:10i	04:46c	06:28H	17:02g	18:41F	20:23I	
Mon 10 Oct 94							
MIR	05:39g	07:15f	08:53h	10:30h	12:07f	13:43g	
OSCAR-21	08:10h	09:53A	11:41H	19:06i	20:51b	22:37H	
RS-10/11	06:57i	08:41f	10:27G	20:29h	22:12A		
RS-12/13	00:04g	01:49E	03:40I	11:02g	12:47D	14:35I	22:51i
DOVE	03:10i	04:42g	06:21F	08:07I	16:56i	18:35b	20:15H
AO-27	02:45i	04:20f	06:00G	16:35h	18:14C	19:55I	
Tue 11 Oct 94							
MIR	04:45h	06:20d	07:57h	09:35i	11:12g	12:48d	14:25i
OSCAR-21	08:36g	10:21E	12:12I	19:33g	21:19D	23:06I	

RS-10/11	00:00H	07:26i	09:11b	10:57H	20:57g	22:42E	
RS-12/13	00:32d	02:18G	09:46i	11:30e	13:16G	23:17h	
DOVE	04:14h	05:52B	07:34I	16:29i	18:06e	19:45G	
AO-27	03:54g	05:33E	07:18I	16:09i	17:47c	19:28H	
		Wed 12	Oct 94				
MIR	03:51i	05:25d	07:02h	08:39i	10:16h	11:53d	13:29h
OSCAR-21	07:23i	09:03e	10:49G	18:18i	20:01f	21:47G	
RS-10/11	00:33I	07:55g	09:41D	11:29I	19:46i	21:27d	23:13G
RS-12/13	01:00B	02:48H	10:13h	11:58a	13:45H	23:43g	
DOVE	03:47i	05:23d	07:04H	17:37g	19:16E	20:58I	
AO-27	03:28h	05:06A	06:48I	15:45i	17:21f	19:01G	20:44I
		Thr 13	Oct 94				
MIR	02:59i	04:30g	06:06g	07:44h	09:21h	10:57f	12:34g
OSCAR-21	07:48h	09:30A	11:19H	18:44i	20:28b	22:15H	
RS-10/11	06:42i	08:25e	10:11G	20:13h	21:56B	23:45H	
RS-12/13	01:28E	03:20I	10:41g	12:26D	14:14I	22:30i	
DOVE	03:20i	04:54f	06:34G	17:08h	18:47B	20:27I	
AO-27	03:03i	04:39d	06:20H	16:54g	18:34E	20:15I	
		Fri 14	Oct 94				
MIR	03:35h	05:11d	06:48h	08:26i	10:02g	11:38e	13:16i
OSCAR-21	08:14g	09:58E	11:49I	19:11h	20:56D	22:44I	
RS-10/11	07:10h	08:55b	10:42H	20:42g	22:27E		
RS-12/13	00:11d	01:57G	09:25i	11:09e	12:55G	22:56h	
DOVE	04:26h	06:04D	07:48I	16:41i	18:18d	19:58H	
AO-27	02:39i	04:13f	05:53G	16:28h	18:07B	19:48I	
		Sat 15	Oct 94				
MIR	02:41i	04:15c	05:52h	07:30i	09:07h	10:43c	12:20h
OSCAR-21	07:01i	08:41e	10:27G	17:55i	19:38f	21:24G	
RS-10/11	00:18I	07:40g	09:25E	11:14I	19:30i	21:11d	22:58G
RS-12/13	00:39B	02:27H	09:52h	11:37b	13:24H	23:23g	
DOVE	03:58i	05:35b	07:17H	17:49g	19:28F	21:10I	
AO-27	03:47h	05:25D	07:09I	16:03i	17:40d	19:20H	
		Sun 16	Oct 94				
MIR	01:49i	03:20g	04:57g	06:34h	08:12h	09:48f	11:24g
OSCAR-21	07:26h	09:08b	10:56H	18:22i	20:06b	21:52H	
RS-10/11	06:26i	08:10e	09:56G	19:58h	21:41B	23:30I	
RS-12/13	01:07E	02:59I	10:20g	12:05E	13:53I	22:10i	23:50d
DOVE	03:31i	05:06e	06:46G	17:20h	18:59D	20:40I	
AO-27	03:22h	04:59a	06:41H	17:14f	18:53G	20:36I	
		Mon 17	Oct 94				
MIR	02:26h	04:01d	05:39h	07:16i	08:53g	10:29d	12:07i
OSCAR-21	07:52g	09:36E	11:27I	18:49h	20:34D	22:21I	
RS-10/11	06:55h	08:40A	10:27H	20:26f	22:11F		
RS-12/13	01:37G	09:05i	10:48e	12:34G	22:35h		
DOVE	04:38g	06:16E	08:02I	16:52i	18:30b	20:10H	
AO-27	02:57i	04:32e	06:13H	16:47h	18:26E	20:08I	
		Tue 18	Oct 94				
MIR	01:32i	03:06c	04:43h	06:21i	07:58h	09:34c	11:11h

OSCAR-21	06:39i	08:18e	10:05G	17:33i	19:16f	21:02F		
RS-10/11	00:04I	05:44I	07:24g	09:10E	10:59I	19:14i	20:56c	22:43H
RS-12/13	00:18B	02:07H	09:32h	11:16b	13:03H	23:02g		
DOVE	04:10h	05:47B	07:30I	16:26i	18:01f	19:41G	21:24I	
AO-27	02:33i	04:06g	05:45F	07:32I	16:21i	18:00A	19:40H	
Wed 19 Oct 94								
MIR	00:39i	02:11g	03:47g	05:25h	07:02h	08:38f	10:15g	
OSCAR-21	07:04h	08:46a	10:34H	17:59i	19:44c	21:30H		
RS-10/11	06:10i	07:54d	09:41G	19:42h	21:26C	23:15I		
RS-12/13	00:47E	02:38I	09:59g	11:45D	13:33I	21:49i	23:29d	
DOVE	03:43i	05:18d	06:59H	17:32h	19:11E	20:53I		
AO-27	03:40h	05:18C	07:02I	15:56i	17:33d	19:13H		
Thr 20 Oct 94								
MIR	01:16h	02:52e	04:29h	06:07i	07:43g	09:19e	10:57i	
OSCAR-21	07:29g	09:14E	11:04I	18:26h	20:11C	21:59I		
RS-10/11	06:39h	08:24A	10:11H	18:33i	20:11f	21:56F	23:49I	
RS-12/13	01:16G	08:44i	10:27e	12:13G	22:14h	23:57B		
DOVE	03:16i	04:50g	06:29F	17:04i	18:42B	20:23H		
AO-27	03:15i	04:51c	06:33H	17:06g	18:46F	20:28I		
Fri 21 Oct 94								
MIR	00:22i	01:56c	03:33h	05:11i	06:48h	08:24b	10:01h	23:29i
OSCAR-21	06:17i	07:56e	09:42G	17:11i	18:54f	20:39F		
RS-10/11	05:27i	07:09g	08:55E	10:44I	18:59i	20:40c	22:28H	
RS-12/13	01:46H	09:11h	10:55a	12:42H	22:41g			
DOVE	04:22h	05:59D	07:43I	16:36i	18:13e	19:53H		
AO-27	02:50i	04:25e	06:05G	16:40h	18:19D	20:00I		
Sat 22 Oct 94								
MIR	01:01f	02:37g	04:15h	05:53h	07:29f	09:05g		
OSCAR-21	06:41h	08:23a	10:11H	17:37i	19:21c	21:08H		
RS-10/11	05:55i	07:39d	09:25G	19:26h	21:10D	23:00I		
RS-12/13	00:26E	02:17I	09:38g	11:24D	13:12I	21:28i	23:08d	
DOVE	03:54i	05:30c	07:12H	17:44g	19:24F	21:06I		
AO-27	02:27I	03:59g	05:38E	07:23I	16:14i	17:52b	19:33H	
Sun 23 Oct 94								
MIR	00:07h	01:42d	03:19h	04:57i	06:34g	08:10e	09:48i	23:12i
OSCAR-21	07:07g	08:51E	10:42I	18:04h	19:49C	21:36I		
RS-10/11	06:24h	08:09B	09:56I	18:17i	19:55f	21:41F	23:34I	
RS-12/13	00:55G	08:23i	10:06e	11:52G	21:54h	23:36A		
DOVE	03:27i	05:02f	06:41G	17:16h	18:54C	20:35I		
AO-27	03:33h	05:11B	06:54I	15:49i	17:26e	19:06G		
Mon 24 Oct 94								
MIR	00:47d	02:24h	04:01i	05:38h	07:14c	08:51i	22:20i	23:51f
OSCAR-21	05:55i	07:34e	09:20G	11:15I	16:49i	18:31f	20:17F	22:07I
RS-10/11	05:11i	06:54f	08:39F	10:29I	18:43i	20:25b	22:12H	
RS-12/13	01:25H	08:50h	10:35a	12:21H	22:20g			
DOVE	04:33g	06:12E	07:56I	16:48i	18:25c	20:06H		
AO-27	03:08i	04:44c	06:25H	16:59g	18:39F	20:21I		
Tue 25 Oct 94								

MIR	01:28g	03:06h	04:43h	06:19f	07:56g	22:57h		
OSCAR-21	06:19i	08:01b	09:49H	17:15i	18:59c	20:45H		
RS-10/11	05:39i	07:23c	09:10H	19:11g	20:55D	22:45I		
RS-12/13	00:05E	01:56I	09:18g	11:03D	12:51I	21:07i	22:48d	
DOVE	04:06h	05:43A	07:25I	16:22I	17:56f	19:36G	21:19I	
AO-27	02:43i	04:18f	05:58G	16:33h	18:12C	19:53I		
		Wed 26	Oct 94					
MIR	00:32d	02:10h	03:47i	05:24g	07:00e	08:38i	22:03i	23:37c
OSCAR-21	06:45g	08:29D	10:19I	17:42h	19:27C	21:14I		
RS-10/11	06:08h	07:54C	09:41I	18:01i	19:40e	21:26G	23:20I	
RS-12/13	00:34G	08:02i	09:46e	11:32G	21:33h	23:16A		
DOVE	03:38i	05:14e	06:54H	17:28h	19:07E	20:48I		
AO-27	03:52g	05:30E	07:15I	16:07i	17:45c	19:25H		
		Thr 27	Oct 94					
MIR	01:14h	02:52i	04:28h	06:05c	07:42i	21:10i	22:42f	
OSCAR-21	05:33i	07:12f	08:57G	10:52I	16:26i	18:09f	19:55F	21:45I
RS-10/11	04:55i	06:38f	08:24F	10:14I	18:27h	20:09b	21:57H	
RS-12/13	01:04H	08:29h	10:14a	12:00H	22:00g	23:44E		
DOVE	03:12i	04:45g	06:24F	08:11I	16:59i	18:38b	20:18H	
AO-27	03:26h	05:03B	06:46I	15:43i	17:18f	18:58G	20:41I	
		Fri 28	Oct 94					
MIR	00:18g	01:56h	03:33h	05:09f	06:46g	21:47h	23:22e	
OSCAR-21	05:57i	07:39b	09:27H	16:52i	18:36c	20:23H		
RS-10/11	05:24i	07:08c	08:55H	18:55g	20:39E	22:30I		
RS-12/13	01:36I	08:57g	10:42D	12:30I	20:47i	22:27d		
DOVE	04:17h	05:55C	07:38I	16:32i	18:09e	19:48G		
AO-27	03:01i	04:37d	06:18H	16:52g	18:31E	20:13I		
		Sat 29	Oct 94					
MIR	01:00h	02:37i	04:14g	05:50e	07:28i	20:53i	22:27b	
OSCAR-21	06:23g	08:07D	09:57I	17:19h	19:04C	20:51I		
RS-10/11	05:53h	07:38C	09:26I	17:44i	19:24e	21:10G		
RS-12/13	00:14G	07:41i	09:25e	11:11G	11:28G	21:12h	22:55B	
DOVE	03:50i	05:26c	07:07H	17:40g	19:19F	21:01I		
AO-27	02:37i	04:11f	05:50F	16:26h	18:05B	19:45I		
		Sun 30	Oct 94					
MIR	00:04h	01:42i	03:19h	04:55c	06:32i	20:00i	21:32f	23:08g
OSCAR-21	05:11i	06:49f	08:35G	10:29I	16:04i	17:47f	19:32F	21:22I
RS-10/11	04:39i	06:23f	08:09F	18:11h	19:54A	21:42H		
RS-12/13	00:44H	08:08h	09:53b	11:40H	21:39g	23:24E		
DOVE	03:23i	04:57f	06:37G	17:11h	18:50B	20:31I		
AO-27	03:45h	05:23D	07:07I	16:00i	17:38d	19:18H		
		Mon 31	Oct 94					
MIR	00:46h	02:23h	03:59f	05:36g	20:37h	22:12e	23:50h	
OSCAR-21	05:35i	07:16b	09:04H	16:30i	18:14d	20:00H		
RS-10/11	05:08i	06:53b	08:39H	18:39g	20:24E	22:15I		
RS-12/13	01:15I	08:36g	10:21D	12:09I	20:26i	22:06d	23:53G	
DOVE	04:29h	06:07D	07:51I	16:43i	18:21d	20:01H		
AO-27	03:19h	04:56b	06:38H	17:11f	18:51G	20:33I		

		Tue 01 Nov 94					
MIR	01:27i	03:04g	04:40e	06:18i	19:43i	21:17b	22:54h
OSCAR-21	06:00h	07:44D	09:34I	16:57h	18:42B	20:29I	
RS-10/11	05:37g	07:23D	09:11I	17:28i	19:09e	20:55G	
RS-12/13	07:21i	09:04e	10:50G	20:51h	22:34B		
DOVE	04:01i	05:38a	07:20H	17:52f	19:31G	21:14I	
AO-27	02:54i	04:30e	06:10G	16:45h	18:24D	20:05I	

Date: Wed, 05 Oct 1994 07:01:17 GMT
 From: chris@zl2tpo.actrix.gen.nz (Chris Jackson)
 Subject: Satellite Tracking for Windoze

In article <Cx5xx5.6wI@freenet.carleton.ca>, Russ Renaud
 (ae517@FreeNet.Carleton.CA) writes:

>

>Hope this isn't already in a FAQ, but what shareware is available to try
 >for satellite tracking in the Windows world, and where could one FTP it?

WiSP is aMicrosat groundstation program for Windows. It also has
 some reasonably basic tracking functions. It is available on
 ftp.ucsd.edu in the hamradio/incoming directory. Most files are
 located in the file WISPxxxx.zip (xxxx being the date and I can't
 remember it). I uploaded a new GSC today and it is in the file
 GSC083E.ZIP.

73 Chris ZL2TP0
 zl2tpo@amsat.org

End of Ham-Space Digest V94 #281
